

Brian Marks

Contact Information

Location New York City
Email brian@brianmarks.me
Website BrianMarks.me

Languages

Scala	●●●●●
Python	●●●●●
SQL	●●●●●
Java	●●●●○
Golang	●●●○○
JavaScript	●●●○○
HTML/CSS	●●○○○

Skills and Competencies

Cloud Computing	●●●●●
Microservices	●●●●●
Docker/Containers	●●●●●
Elasticsearch	●●●●○
Service Design	●●●○○
Web Development	●●○○○
Figuring It Out	●●●●●

Education

*New York University –
Tandon School of
Engineering*
B.S. in Computer Science
with Minors in Math and
Physics
Cumulative GPA: 3.8 –
Magna Cum Laude

Projects

DavidMeet.com

- Fun project to help meet people that share the same name, David

Am I Online?

- HTTP testing service to track performance, uptime, and latency

Professional Experience

Curalate *Senior Software Engineer* Aug 2016 – Present

Backend Software Engineer for social media SaaS platform

- Designed and developed clickstream analytics pipeline, including processing, recording, storage, and reporting on tons of interactions (>6B per month) with near 100% uptime using AWS Redshift
- Redesigning an internal social media search engine using Elasticsearch, ingesting >300M documents per month and handling all search requests with a flexible and autogenerated search API
- Developed a serverless edge computing solution for our public APIs that provided low latency, high availability, and additional telemetry that serviced 2B+ requests per month
- Contributed frequently to core libraries and service scaffolds to speed up development across the engineering organization
- Reduced monthly infrastructure spend while maintaining SLAs and SLOs by optimizing use of many AWS services
- Designed and operated our data warehouse using AWS Redshift to support data scientists, business analytics, and product decisions
- Participated in the On-Call Engineering (OCE) rotation for responding to high-priority alerts around the clock

Nokia *Software Engineer Co-op* June 2015 – Aug 2016

Software Engineer Co-op in the wireless division of Nokia, a large company that works on cellular towers and related devices for the top wireless carriers

- Improved the software development environment with various tools and utilities, primarily in Python
- Created a Python application to visualize large GNU Makefiles to assist debugging and parallelization
- Designed a Python application to parse large log files and perform data analysis and visualization
- Prototyped a Python application to find broken links in source code and suggest possible fixes

Ford Foundation *Technical Consultant* June 2013 – Dec 2014

Infrastructure management at the Ford Foundation, a not-for-profit philanthropy that provides grants to local organizations who align with their mission

- Automated server management, application deployment, and report generation using Python